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# INFORMATION REPORT INFORMATION

# CENTRAL INTELLIGENCE AGENCY

mation affecting the National Deranse of the United States within the meaning of the Espionage Laws, Title

|                  | C-O-N-F-I-D-E-N-  | 1-1-11           |                  |               |
|------------------|---|------------------|------------------|---------------|
|                  | 77 (1) (2)  | DEDODT           |                  | 25)           |
| COUNTRY          | USSR (Moscow Oblast)  | REPORT_          | 9 February       | 1959          |
| SUBJECT          | <ol> <li>Central Automobile Repair Plant<br/>in Moscow</li> </ol>   | DATE DISTR.      |                  | ± <i>)</i> // |
|                  | 2. The ZIL Automobile Plant in Moscow   | NO. PAGES        | 1                |               |
|                  |   | REFERENCES       |                  |               |
| DATE OF<br>INFO. |   |                  |                  | 25X1          |
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|                  |   |                  |                  |               |
|                  | Attachment 1 is a report including de Central Automobile Repair Plant in Mc Attachment 2 general and specific information cond Moscow. A plant layout sketch is als | erning the ZI    |                  |               |
|                  | Central Automobile Repair Plant in Mc Attachment 2 general and specific information cond  | erning the ZI    |                  |               |
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| (Note: Washi | ngton | distribution | on indicate | d by "X"; | Field distribution by | <b>"#".</b> ) |     |          |  |

| 1.   | # # A B # M   |   |     |
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| `  | SECRET  |   |     |
| OUNTRY: USSR   | CONFIDENTIAL  |   |     |
|  | PROPERTY THE COURSE   |   |     |
| JBJECT: ZIL AUTOMO   | BILE PLANT  | •   |     |
|  |   |   | 0.5 |
|  |   |   | 25. |
|  |   |   |     |
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|  |   |   |     |
|  |   |   |     |
| 1  | Plant ( case called Stalin and there exity rayon, on a sort of peninsula  | ·   |     |
| in Moscow, Proletar<br>Mosku<br>the Moscova river a  | Plant ( case called Stalin and there skiy rayon, on a sort of peninsula   | which jutted out into southern port. Point  |     |
| Mosky the Moscova river a  | Plant ( conscious called Stalin and there skiy rayon, on a sort of peninsula and northwest of the cova-River  | southern port. Point  |     |
| Mosky the Moscova river a  | Plant ( case called Stalin and there skiy rayon, on a sort of peninsuland northwest of  | southern port. Point  |     |
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| in Moscow, Proletar Mosky the Moscova river a for reference was the malf from the plant Automobiles. Translation was almost modern than others, meter wall and had gate faded the sub- | Plant ( core called Stalin and there is skiy rayon, on a sort of peninsular and northwest of core River is stalinskiy subway station, local is main gate. It was subordinate is circular; some of its buildings in three entrances plus one for the | which jutted out into southern port. Point ted a kilometer and a to the Ministry of and shops were more gh 5-kilometer perinailroad; the main |     |

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|--|-----------------|
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| small 1500 kilogram trucks, bicycles, and dark green and dark                    |                 |
| may 7 to 8 X 25 mater 2500 1-13  | 25 <b>X</b> 1   |
| grey 7 to 8 X 22-meter 2500 kilogram amphibious vehicles driven by prope-        | 25X1            |
| llers were made here. All of these were stamped ZIL (1).                         | , 20 <b>X</b> 1 |
| Another shop manufactured an unidentified product which was carried away         | 25X1            |
| in tightly closed boxes; it was heavily guarded by soldiers and no one           |                 |
| was permitted to enter.  |                 |
| BUILDINGS AND THEIR ACTIVITIES   |                 |
| A STATE OF THE ACTIVITIES  |                 |
| Some of the shop buildings had underground installations.                        |                 |
| there were approximately 50 buildings  | 25X1            |
|  |                 |
| -  |                 |
| Final Assembly Shop Building 110 1 It turned out about 30 three-ton              | •               |
| trucks a day. Approximately 1200 persons worked here.                            |                 |
|  |                 |
| Motor Construction Shop Building Nº 2  | 25X1            |
| 400-mater long by 30-meter high two-story brick stuccoed structure               |                 |
| 1  |                 |
| t that had a tar-cinder roof and a basement. In 1954 part of the roof            |                 |
| caught fire.   |                 |
| (Sach day'   |                 |
| It made 65 different types of heavy oil engines used in six-cylinder             |                 |
| 50 horsepower three-ton trucks. ####7##97  |                 |
| Most of the machinery was automatic made in Germany                              | 25X1            |
| had 1200 vertical and horizontal lathes; most of them weighed ten                |                 |
| tons and the rest two or three tons. This machinery frequently                   |                 |
| broke down because it was old and parts often were defective and had             |                 |
| to be done over.   | 25X1            |
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The engines were taken to Assembly Shop Building Nº 1 where they were Sanitized Copy Approved for Release 2010/06/29: CIA-RDP80T00246A046800320001-7

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|----------|--|-----|
|          |  |     |
| •        | unitalled in   |     |
| 4        | the trucks.  | 25  |
| 1        |  | 20  |
| ,        | This shop had 1200 persons on three shifts. They were allowed wide         |     |
|          | tolerance ranges.  |     |
|          |  |     |
|          | Underground installations were being constructed here.                     |     |
| -        | Casting Shop Building It cast iron and other metals.                       |     |
|          |  |     |
|          | Bicycle Shop Building  |     |
| ı !      | Secret Sections the amphibious vehicles were                               | 2   |
|          |  |     |
| ,        | made here.)  |     |
| RAW M    | A PERIALS  |     |
| 1        |  |     |
| The P    | lant used wrought iron, cast iron, steel, copper, lead, aluminum, tin,     |     |
| má also: | l pleatin and sole mineral of ways and line butch comen                    |     |
| nicke.   | l, plastic, coal, coke, mineral oil, wood, gasoline, brick, cement,        |     |
| plaste   | er, water, and gas which were brought by truck, railroad, and water.       |     |
| A3 A     |  |     |
| About    | 40 or 50 trucks came in each day, the hajority at night.                   |     |
|          | the copper cable and aluminum wim imported from Poland                     | 2   |
|          |  |     |
| and C    | zecho-Slovakia.  |     |
| Logs,    | boards, aluminum, copper, and plastic used for refrigerators were          |     |
|          |  |     |
| brough   | in by train and coal, stone, plaster, and bricks by water.                 |     |
| WATER    | SUPPLY   |     |
|          |  | 0   |
| In       | shop building there was a tank and three or four pumps. Water              | 2   |
|          | unped to the plant by a system on the river/located/near the bridge.       |     |
| Was n    |  |     |
| was pi   |  |     |
| ****     | ipes were installed underground except for those on the walk of some       |     |
| The pi   | ipes were installed underground except for those on the walk of some       |     |
| The pi   |  | 3   |
| The pi   | ipes were installed underground except for those on the walk of some       | 25X |

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| transformers were located throughout the plant. Power was adequate.  | 25X1          |
| Floodynton of the greatled Wissens Court II  | 25X1          |
| Fleedgates of the soccalled "Moscow Canal" and some dams were located  |               |
| on the river south of the plant; barges bringing leads came up this canal.   |               |
| PACKING  |               |
|  |               |
| In Shop Nº 2, motors ready for shipment were wrapped in heavy yellow greased   |               |
| paper, cushioned with straw, and packed in wooden crates. These were stamped   |               |
| ZIL and something else   | 25 <b>X</b> 1 |
| TRANSPORTATION   |               |
|  |               |
| Railroad - A double-track siding entered the premises on the southwest   |               |
| and branched off to the different shops where materials were filloaded from  |               |
| the platforms onto railroad cars. Most of the cars and small steam loco-   |               |
| motives were old. However, the hore modern ones were made of metal,  |               |
| weighed 50 to 60 tons, and had four axles. Some of the electric cranes,  |               |
|  |               |
| which moved along the track, weighed 15 tons.  | . 25X1        |
| Seventy-five percent of the products   | 25X1          |
| were shipped by rail; in-coming products were usually handled by barge   |               |
| broad of the country produced with the maintenance of parket   |               |
| since a greater amount could be brought in this way.   |               |
|  |               |
| Roads The Plant used the 25-meter wide Leningradskiy road; the road bed  |               |
| was made of stone and sand covered with a layer of tar. It needed to be re-  |               |
| paired often because traffic was heavy and it was not well cared for. It   |               |
| was always open to traffic. The garages and shops were adequate enough to  |               |
|  |               |
| service the plant's 70 trucks. Vehicles unloaded between 6800 and 1800   |               |
| and transported one percent loss (4 a 3-these section and transported one percent loss (4 a 3-these section and the section an |               |
| and transported one percent less (i.e. lathes, parts. and bronze) than   | 25X1          |

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trains and barges.

Water.— The Plant had a small 30 X 15-meter inner harbor with wooden docks

(into which only one barge fitted; others had to line up and wait their turn

outside) located near the bridge at the plant's entrance. The river at this

point was 60 or 70 meters wide and five or six meters deep. They used a

10-ton electric travelling crane.

Forty or fifty-ton 25 X 7 or 8 X 32-meter black wooden barges with a 22-meter draft were towed at 10 kilometers per hour by small steam sidewheelers. Four or five arrived or left each day; a man (or woman) took care of the two line.

They carried stone, cement sacks, plaster, plastic glass, wood, coal, brick, sand, and tiles. Seventy percent of construction materials were brought by water. Six floodgates canal were located eight kilometers south of the plant.

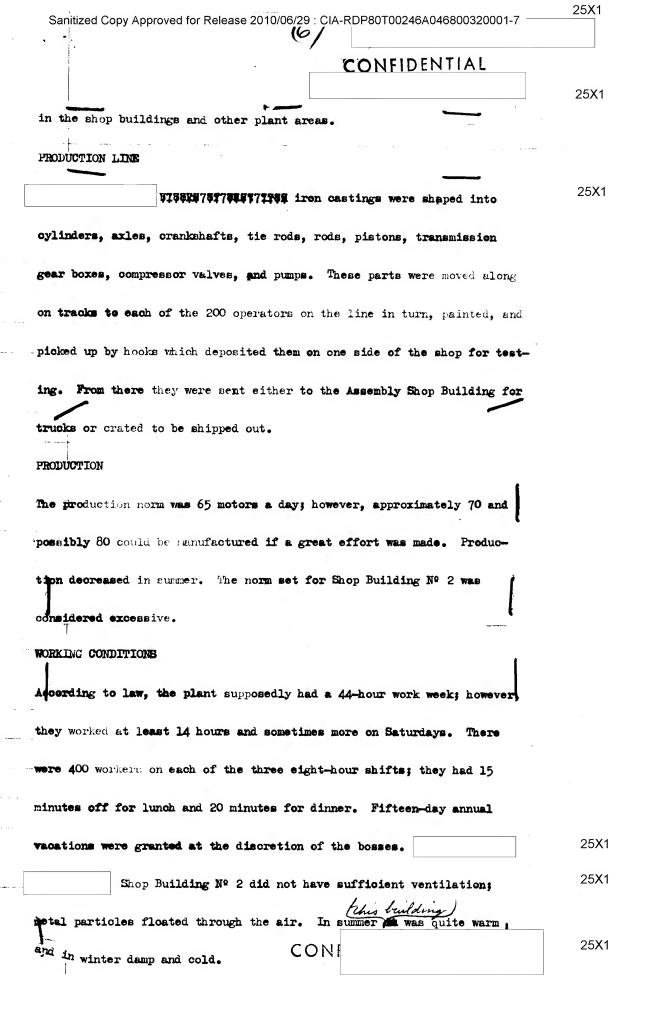
STORACE

An open-air dump, which stored regular and plastic glass, wood, lathes, motors, aluminum, bronze, steel, 50 or 60 tons of cement and plaster, coal, steel ingots, bricks, and sand under distribution in sheds, was located near the river and the port. Next to the dump were warehouses (the larger ones measured 50 x 20 x 3 or 4-meters). Cans of heavy oil and metal boxes of grease were also stored here. Loading and unloading platforms, cranes, and cars on railroad sidings were located in this storage area.

Smoking or lighting fires was not permitted near areas where inflamable

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materials were stored. There were hydrants, extinguishers, and sand boxes

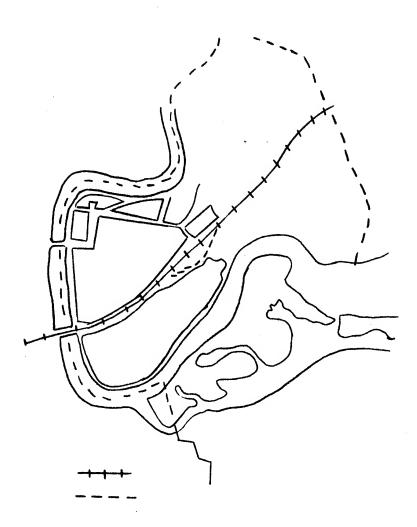


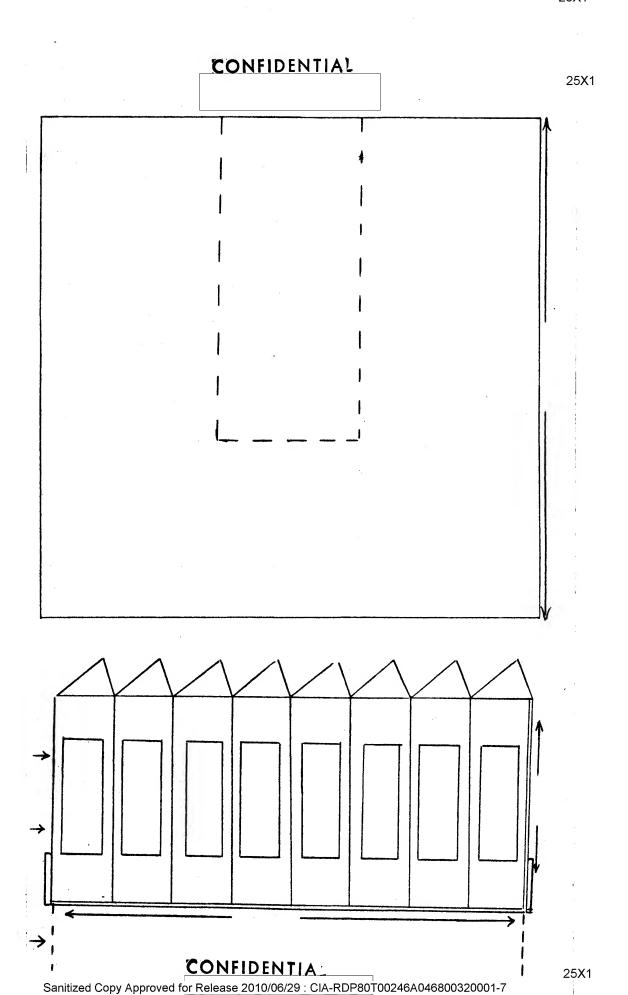
| :   | 171  |   |
|---|--|---|
| *.  | (7)  | 2 |
| YITY  | MANTIDENTIAL   | : |
| 477 hundred geomet voltage (man )   | and women), armed with guns and pistols,   |   |
| TAN Univided Recief bolice (men a   | and women', armed with guin and presents   |   |
| were stationed on three shifts in   | n some shops, at the two entrances, and  |   |
| neide and outside the premises.   | However, the system was not very rigid.  |   |
| TIED THE STATE OF PERSONS   | notices, the national field to the party   |   |
| orkers had to present a propusk   | with fotograph, name, shop number, and   |   |
| red stripe) on entering the pro   | emises and a card with number and mame,  |   |
|   |  |   |
| mich was punched by a time clock  | k, on entering and leaving the shops.  |   |
| forkers were not allowed in shope   | s other than their own unless they had a   |   |
|   |  |   |
| good reason.  | ,  |   |
| he plant also had three fire en   | ines and eighty firemen who lived in a   |   |
|   |  |   |
| ullding located next to the main  | ngate. There were shelters, gas masks,   |   |
|   |  |   |
| nd special rubber suits;  | the installation   | : |
| and special rubber suits;   |  | : |
| could be blacked out by a master  | the installation switch which was located in the adminis-  | : |
| could be blacked out by a master  |  | : |
| ration building.  |  | : |
| evald be blacked out by a master station building.  | switch which was located in the adminis-   |   |
| evald be blacked out by a master station building.  | switch which was located in the adminis-   | : |
| ration building.  | switch which was located in the adminis-   |   |
| ration building.  REGANIZATION AND PHISONNEL  h plant had approximatel; 17,00   | switch which was located in the adminis-   |   |
| ration building.  REGANIZATION AND PHISONNEL  The plant had approximatel; 17,00   | switch which was located in the adminis-  OO employees;  man was in charge of control and a testing  |   |
| ration building.  REGANIZATION AND PHISONNEL  The plant had approximatel; 17,00   | switch which was located in the adminis-   |   |
| ration building.  REGANIZATION AND PHISONNEL  Plant had approximatel: 17,00  A wor  | switch which was located in the adminis-  OO employees;  man was in charge of control and a testing  |   |
| ration building.  REGANIZATION AND PERSONNEL  Plant had approximatel: 17,00  A wor  | switch which was located in the adminis-  OO employees;  man was in charge of control and a testing  |   |
| ration building.  REGANIZATION AND PHISONNEL  The plant had approximatel; 17,00   | switch which was located in the adminis-  OO employees;  man was in charge of control and a testing  |   |
| ration building.  REGANIZATION AND PERSONNEL  Plant had approximatel: 17,00  A wor  | ewitch which was located in the adminis-  OO employees;  man was in charge of control and a testing  f the assembly line. Shop building Nº 2 |   |
| ration building.  REGANIZATION AND PHISONNEL  Plant had approximatel; 17,00  A worder organized as follows:  1 Shop Chief | switch which was located in the adminis-  OO employees;  man was in charge of control and a testing  f the assembly line. Shop building Nº 2 |   |

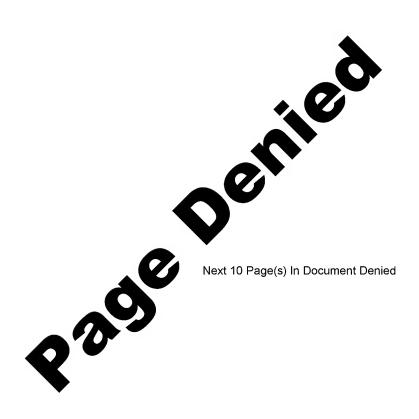
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|---|---|---|---|------|
| l Me  | chanical Engineer (who ch   |   |   |      |
| Worke:  |   |   |   |      |
| WOLKE:  | T B   |   |   |      |
|   | names of the follow:  | ing Soviet pers                             | onnel:                                    | 25X  |
| Lijachov, I   | Plant Director  |   |   |      |
|   |   |   |   |      |
|   |   |   |   | 25X  |
|   |   |   |   | 25%  |
|   |   |   |   |      |
|   |   |   |   |      |
| Dimitrov, C   | hief of Shop Nº 2 Mech  | anical Engineer                             | r,  |      |
|   |   |   |   | •    |
|   |   |   |   |      |
|   |   | _   |   |      |
| 6   |   |   |   |      |
| Abraham Ifre  | emovich, Assistant Chief  | of Shop Nº 2                                |   |      |
| Abraham Ifm   | emovioh, Assistant Chief o  | of Shop Nº 2                                |   |      |
| Abraham Ifre  | emovioh, Assistant Chief o  | of Shop Nº 2                                |   |      |
| Abraham Ifre  | emovioh, Assistant Chief o  | of Shop Nº 2                                |   |      |
|   |   | of Shop Nº 2                                |   |      |
|   | emovich, Assistant Chief of                                       | of Shop Nº 2                                |   |      |
|   |   | of Shop Nº 2                                |   |      |
|   |   | of Shop Nº 2                                |   |      |
|   |   | of Shop Nº 2.—                              |   |      |
|   |   | of Shop Nº 2.—                              |   |      |
|   | va, Control Supervisor  |   | at the plant                              |      |
|   | about 600 Russian pr  | isoners worked                              |   |      |
|   | about 600 Russian pr  | isoners worked                              |   |      |
| Nina Merkulo  | about 600 Russian pr  | isoners worked                              | stone, and shavings                       |      |
| Nina Merkulo under the aug                            | about 600 Russian profession of guards                            | isoners worked                              | closed trucks.                            |      |
| Nina Merkulo under the aug                            | about 600 Russian pr  | isoners worked                              | stone, and shavings                       | 25   |
| Nina Merkulo  under the sup                           | about 600 Russian pr They loaded and inloaded gervision of guards | isoners worked iscrap iron, so travelled in | closed trucks.                            | 25   |
| Wina Merkulo  under the sup  not paid  tely 500 other | about 600 Russian profession of guards                            | isoners worked iscrap iron, s travelled in  | closed trucks. They chere were approxima- | 25X1 |

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|   |      |
| There were no strikes. Workers complained about low wages or being paid         |      |
| late when the plant did not have sufficient funds.                              |      |
| Priviledges were given to Party members and the sond or relatives of the        |      |
| bosses. There were few absences; however, workers were fired if it re-          |      |
| curred frequently.  |      |
| DEFICIENCIES, BEPROVEMENTS, AND PROMOTION OF PRODUCTION                         |      |
| Norms were raised to increase production and assembly lines were being          |      |
| automatized. Mechanical problems were solved by installing new modern           |      |
| machinery. Equipment was not well cared for since there was no time and         |      |
| work could not be stopped. There was a high percentage of defective parts.      | ;    |
| number and quantities were falsi-   | 25X1 |
| fied on the records until they produced enough to cover difficits.              |      |
| the production norm on engines was to be decreased                              | 25X1 |
| since this type of work was very strenuous. it would take 15                    | 25X1 |
| days to convert the plant to wartime use and the chiefs had already             |      |
| received instructions on what to de in such a case.                             | d d  |
| AUTOMATION  |      |
|   |      |
| mechanical automation was used in all the shops                                 | 25X1 |
|   |      |

|   |                 | N.I |   |     |     | ıт  | IA | 1 |
|---|-----------------|-----|---|-----|-----|-----|----|---|
| • | ( )             | N   | - | 11) | T I | N I | IA | ı |
| • | $\mathbf{\sim}$ | 17  |   |     |     | , ı |    | - |







C-O-N-F-I-D-E-N-T-I-A-L

. 2 -

25X1

#### THE CENTRAL AUTOMOBILE REPAIR PLANT IN MOSCOW

## -dentral

1. Central Antomobile Repair Plant (Thentralnyy Afternountmyy Zavod), legical on Tankovyy Proyezd in the Pervennyskiy rayen of Moscov, was subjectionate to the Ministry of Antomobile Transports. (See overlay of Moscov city plan was located.)

25X1

# Flant Buildings and Functions

She margin numbers in parentheses refer to the attaches essaid of shetch of the plant legent. Outs! 1948-1949, there was only a single repair shop called the "General Repair Shop", which was in the area now occupied by the shop building (See (14) through (21) below), with very few muniliary shops. From this time on, either shops were constructed, enlarged and appropriately equipped to become the present "Central Automobile Repair Flant". Home of the plant buildings contained becoments. There was no room for further expansion as the area around the plant was fully built-up. The buildings were described as follows:

25X1 25X1

- (1) Entrance to the plant from Tankovyy Proyezd.
- (2) Office building. This was a two-story brick building, approximately 40 x 60 meters, and readed with sheet metal. There was only one outside entrance, so that the offices were almost completely separated from the plant itself, except for a small c door from the first-aid ream to the plant grounds. The arrangement of these offices is shown on shortches Nos. 5 and 6 on pages 12 and 12.7
- (3) Paint shop No. 1. This was a sheet-metal roofed, brick 40 x 90-meter structure. The sutchobile were painted here when the repairs were completed. Paint was applied with spray guns.
- (4) Paint shop No. 2. The characteristics and function of this shop were the same as those of Paint Shop No. 1. The automobiles were shored in these shops until they were shipped from the plant.
  - (5) Maset-metal Storage Shelter. This 50 x 60-meter shelter consisted of a ter-impregnated convex canopy, supported by wooden posts this protecting the iron and sheet-metal stock from the rain.
  - (6) Automobile Parking Lot. This was a large, open 40 x 100-mater area surrounded by a three meter high wooden fence. From 100 to 150 automobiles to be repaired were parked here.
  - (7) Living Quarters. This was a three-story building, measuring 20 x 50 meters, which furnished living quarters for some of the plant workers. It had access to the plant area and to the street.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-H-F-I-D-E-H-T-I-A-L

25X1

- 3

(8) Carpentry Shop. This was a sheet-metal roofed, brick structure which measured 45 x 150 meters in area. The truck body work was accomplished here.

machines in this shap were of Soviet-make except for approximately 15 percent which were of German-make. The skeetch lie. 7 on page 14.

25X1

- (9) Rubber Goods Warehouse. This small, brick building with a sheet-metal roof measured 20 x 40 meters. Tires and spare rubber parts were stored here.
- (10) Harehouse. This was a 20 x 40-motor structure. The following simplies was stored here: electrodes, cylinder blocks, cyli
- (11) Grage. From six to eight trucks and three automobiles were kept here.
- This was a specious, brick, sheet-seval roofed structure which measured 35 x 170 meters and was constructed without intermediate columns. In the breakdown and assembly shop, seen 100 verters disassembled the automobiles which were brought in for repair, replaced the necessary parts, and reassembled them. The automobiles were brought in on a range and disassembled piece by piece. These pieces were pickled in a both of caustic seds and water and headed by a stem cell. The pieces were then submerged in clean water. There was no machinery in this shop, ether than a few cranes, winches, and metal cutters. This shop had an upper story constructed on each of the two wings each of which measured 10 x 10 meters. One of these was the shop chief's effice and the other was the reception office. (See sketch No. 3 of this building an page 19. The Electrical Parts Repair they was concerned with all types of automobiles each or remains, and employed some forty workers.

25X1

- (13) Transfermer Scothen. This building measured 20 x 30 meters and command two transfermers, only one of which was in operation; the other passibly being asserved for convencies. Eight to ten workers were coplayed here, but it was off limits to the other plant workers for reasons of their safety. Electrical power was transfermed here and distributed to the various plant shops.
- (14) through (21) The fellowing shops were located in this 40 x 180-meter structure which had a concrete reef covered with tarred canyas.
- (14) Roel Repair Shop. This 40 x 180-meter section, in addition to teel repair work, also die-stamped parts for the automobiles. An upper floor had been added to accommodate the machinists.

  The lower floor contained the machines most of which were of Soviet-make except for one or two of German origin. The machines in this shop were old but in good operating condition. About 40 workers were employed here.
- (15) Machine Maintenance Shep. This section was in charge of the maintenance of all plant machinery. Almost all of the ferty workers acted as a mobile maintenance crew and repaired the machinery throughout the plant. The location of the machinery in this shep is shown on sketch No. 2 on page 25.

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C-O-N-F-I-D-E-N-T-I-A-L

- (16) Recentitioning Shop. This small 8 x 20 meter shop was dedicated to the recentitioning of used subcombile parts thus obvisting the necessity of manufacturing or replacing new parts. Such work as straightening bent parts, and renewing spent springs was accomplished here.
- (17) Washreems. 256 washreems, shewers, and cleakreems were located here. An upper story had been erected and was used as an upholstery shep.
  - (18) Short Metal Shop. This shop measured 40 x 40 meters and employed approximately 30 workers. The distribution of the machinery in this shop is shown on sketch No. 10, page 19.21
  - (19) Mickling Shop. The finished pieces sent from the sheet-metal shop were placed in a constite seda both in this shop in order to remove the grease and foreign matter. They were then placed on work tables for re-finishing.
  - (20) Paint Shop. In this small shop, the pieces received from the pickling shop above were given their first cost of paint.
  - (21) Body Shep. We body parts made in the carpent() shep were received here and mounted, thus completing the repair of the automobile or truck except for painting. (See sketch No. 9 of this shop on page 16.20
  - (22) Meter Repair Shop. The automobile meters were removed from the vehicles in the breakform and assembly section and sent from there to the meter repair shop. In this 32 x 32 meter shop, some sixty vertices completely disassembled the motors, replacing all worn parts. (See sketch No. 8 of this shop, page 19.
  - (23) Mackine Shap. Whe mackine shop manufactured parts such as mutabelts, washers, and axies which were needed in automobile repair work. All major parts such as blocks, cylinder heads and crankshafts were supplied from outside the plant.
- (24) Galvanising and Hickel-Flating Shop. The arrangement of this shop is shown on sketch He. 1, page 25./2
- (25) Ferge. The forge was a small shop measuring 15 x 20 meters, with same fifteen workers, where, in addition to the fore, there were several eil-burning and electric furnaces used for tempering and welding. Here, large balts were made, blocks welded and parts were tempered. (See sketch He. 4 of this shop, page 25.
  - (26) Lumber Yard. The lumber yard was a large unenclosed space where the lumber supplies were stored. Logs were delivered by rail to the unleading platform, where they were cut into planks with a mechanical saw, and then taken to the lumber yard for storage.
  - (27) Unloading platform. (Mentioned above in (26)).
  - (28) Gesoline Dump. The gasoline dump was an open area with two gasoline pumps and oil and grease cans for plant use.
  - (29) Heating Flant. The heating plant was located in a sheet-metal roofed, brick building which measured 20 x 20 meters. Three coal-burning boilers supplied steam for heating the entire plant,

C-O-N-F-I-D-E-N-T-I-A-L

|                   | <del>-</del> 5 -   |
|-------------------|--|
|                   | as well as motive force for the steam-operated machinery. Two of the boilers were constantly in operation, while the third was possibly for emergencies.   |
| (30),             | and (39) through (43) were located in a fire-resistant, two-story brick building which measured 30 $\times$ 80 meters. Workers living quarters located on the second floor, and the various rooms in the club on the first floor are described below in numerical order.   |
| <b>(3</b> 0)      | One section of first floor of club.  |
| (31)              | Large sports field.  |
| (32)              | Coal and Scrap Dump. This open area was utilized for the storage of coal and scrap iron.   |
| (33)              | Railread siding entrance.  |
| (34)              | Railroad siding.   |
| (35)              | Public street with entrance to living quarters (7).  |
| (36)              | Public plaza.  |
| (37)              | Nearby houses.   |
| (38)              | Wooden fence which surrounded the plant.   |
| (39)              | Club stage.  |
| (40)              | Club living room.  |
| (41)              | Club hall.   |
| (42)              | Club dining room.  |
| 43)               | Club kitchens.   |
| 44)               | Bathroess and dressing rocss.  |
| 45)               | Plant street.  |
| lant              | tachinery  |
|                   | percent of the plant machinery was of Soviet-make and ten percent German make.   |
| lant              | Punctions  |
| leme of<br>lects. | Int was devoted solely to the repair of civilian automobiles and trucks. It the automobiles to be repaired were so seriously damaged as to need all of the essential parts replaced, while others had only slight de- No tractors, caterpillars, tanks, nor any vehicle that could possibly saffied as military were ever repaired here. |

C-O-N-F-I-D-E-N-T-I-A-I

|     |  | 2   |
|-----|--|-----|
|     | ·  | _   |
|     | <b>- 6 -</b>   |     |
|     |  |     |
|     | Raw Materials  |     |
|     | · (7)  |     |
|     | The raw materials used at the plant were metal, rods, wood, a small quantity of leather and canvas for upholstery, and in general any material           |     |
|     | that might be used in automobile repairs. Coal and fuel-oil were employed,   |     |
|     | but not in large quantities. Coal was used for heating and for the forge   |     |
| Г   | and the fuel-oil for the tempering furnaces.   | 25) |
| L   |  |     |
|     | Water and Electric Power Supply  |     |
|     | The plant utilized the city water supply and had no storage or reserve of  |     |
|     | its own. Electricity was supplied from a Moscow Electric Center trans-   |     |
| Г   | formed at the plant and distributed to the various plant shops.  the voltage was 220 and power   | 25  |
|     | failures were very rare. Other than the spare transformer in the electrical  | 25) |
|     | center, there were no emergency installations.   |     |
|     | Railroad Transportation  |     |
|     |  |     |
|     | There was, only one standard Seviet-gauge railroad siding entering the plant (See games associated on common this was connected to the Moscow railway    |     |
|     | system the Serp I Molot plant. Also, there was only a single loading and   |     |
| 1   | unloading platform (27), but these facilities appeared sufficient and they   |     |
|     | had not been enlarged. The plant had no rolling stock of its own, utilizing only the normal freight cars from the surrounding region.                    |     |
| Γ   | Some   | 2   |
| •   | weeks, two or three trains of forty to fifty cars would enter the plant,   |     |
| Ì   | While, on the other hand, two or three weeks might pass without a train.  At these times, there remained, however, sufficient work for the plant be-     |     |
| į   | cause many of the automobiles entered by road transport  |     |
|     | Finished cars were   | 2   |
|     | skipped by train or truck depending on the distance involved.  |     |
| į   | Highway Transportation 25  | X1  |
|     | The plant was entered by a short, paved all-weather street, five to seven  |     |
|     | meters wide, and in good condition, which led from Tankevyy Proyezd. The plant itself had six to eight three-ton trucks which were housed in the         |     |
| 1   | plant states and six to eight three-ton trucks which were housed in the  |     |
|     | materials within the plant.  | :   |
|     |  |     |
| 1   | Working Conditions   |     |
|     | The employees of the plant worked eight-hour shifts earned 1200  | 2   |
|     | rubles a month. Each worker had 12 days of annual leave or 15 days, if he  | _   |
| 1   | had worked at the plant for more than two years. He was entitled to select<br>his own vacation period, but this was almost never possible since everyone |     |
|     | chose summer. Instead, vacations were distributed so as not to interfer  |     |
| 1   | with the work of the plant. The wacations were usually spent in a rest camp  |     |
|     | of the Ministery of Automobile Transport. The medical services was confined  |     |
| - 7 | to a first aid room attended by a physician one to two hours daily, and by a murse the rest of the time. At certain times, vaccinations and injections   |     |
|     |  |     |
| 1   | were required as protection against disease. The werkers were constantly encouraged to have their X-rays taken at the district clinic.                   |     |

C-O-N-F-I-D-E-N-T-I-A-L

|     | Sec   | eurity  | - 7 -   |   |  |   | 25X                                  |  |  |  |  |
|-----|---|---|---|---|--|---|--------------------------------------|--|--|--|--|
| 10. | Marie Service | security precent<br>ainst theft. The p<br>ph with several gar<br>e plant guards made<br>erally of slight la<br>guards at the main<br>of guards at the main<br>enter the plant be<br>the enter the plant be<br>the to enter the plant be<br>the head guard to employed the<br>eles. Workers had a<br>counter for reason<br>except was that the | plant was surrountes large enough to up a small force build, unarmed and in gate and three age equipment that taining a watch to this was not rear this was not rear the time there access to all as of personal sa | ded by a wood<br>to admit only<br>se of only six<br>d without spec-<br>c or four other<br>was placed st<br>e prevent fire<br>igorously enfo<br>ng it. Strang<br>obtained with<br>one was allew<br>l the plant as<br>fety. The onl | en wall some one person to eight perial uniformers charged with the charged with the charged. Know yers needed were great divided to remaine accept for limitation | three merat a time. rsons, s. There ith the co- around tik was requ n workers permission ifficulty, n on the particular | were are of he uired were a of , and |  |  |  |  |
| u.  | no existing precautions against air attack. In the ten years only once had the workers been called together in the club recent to attend a lecture on the air defense of the plant, but there had never been any defense drills.  |   |   |   |  |   |                                      |  |  |  |  |
| 12. | Per   | Personnel Organization  |   |   |  |   |                                      |  |  |  |  |
| 12. | The organization of personnel of the plant is indicated on chart on page 22. There were from 800 to 1000 workers, almost all of them specialists. Only about 5% were unskilled laborers. Because of the relatively small number of workers in the shops, there was only one shop superintendent.  the fellowing members of the managerial staff:  |   |   |   |  |   |                                      |  |  |  |  |
|     | 2.  | Mikelaev (FMU).   | Plant director.   |   |  |   | 25X1                                 |  |  |  |  |
|     | ъ.  | Sungurov (FNU).   | Production Engine   | er,   |  |   |                                      |  |  |  |  |
|     | C.  | Novikov (FNU). S  | uperintendent of  | supply.   |  |   |                                      |  |  |  |  |
|     | ā.  | Rukin (FNU). For  | eman of the moter   | repair shop.  |  |   |                                      |  |  |  |  |
|     |   |   |   | . 1   |  |   | /                                    |  |  |  |  |
|     |   |   |   |   | 70 g   | . 1   | T.,                                  |  |  |  |  |
|     |   |   | 1 , ;   |   | *  |   | r e e                                |  |  |  |  |
|     |   | ÷   |   |   | ·  | •   | ,                                    |  |  |  |  |
|     |   | (   | C-O-N-F-I-D-E-N-T   | '-I-A-L   |  |   | 25X                                  |  |  |  |  |

-7-

C-O-N-F-I-D-E-N-T-I-A-L 25X1 - 8 -25X1 Legend to Sketch No. 5 on page 12. Offices, lower floor 1. Street entrance 2. Entrance hall 3. Supply office 4. First aid station (3 rooms) 5. Receiving offices for automobiles brought in for repair6. Shipping control office 7. Cashier 8. Telephone center 9. Office of the Chief of Supply 10. Supply office 11. Personnel office 12. Heating plant 13. Accounting office 14. Passageway 15. Entrance to plant 16. Toilets, washroom Sketch No. 6 on page 3. 25X1 Legend to Offices, second floor 1. Stairway 2. Hall 3. Secretaries 4. Production office 5. Chief of production 6. Toilets, washrooms 7. Corridor 8. Draftsmen 9. Union secretary 10. Party secretary 11. Chief engineer 12. Director 13. Food supply chief 14. Secretary of the director and food supply chief

C-O-N-F-I-D-E-N-T-I-A-L

Sketch No. 2 on page 2. Legend to Machine Maintenance Shop

l. Vertical planer

Lathes

Drilling machines 3.

Milling machines

Horizontal planers

Finishing benches

7. Press

8. Office

C-O-N-F-I-D-E-N-T-I-A-L

|    |                             |   | C-O-N-F-I-D-I                 | E-N-T-I-A-L  | :  | 25X1 |
|----|-----------------------------|---|-------------------------------|--|--|------|
|    |                             |   | - 10                          | ) •••  |  |      |
|    | -                           | gend to<br>et Metal Shop  | Sketch No. 10 o               | n page ¥3.   |  | 25X1 |
| 10 | 6.<br>7.<br>8.<br>9.<br>10. | Large cutter Mechanical bender Press Double-headed mechanic Autogenous welding app Hand bending machine Tables Electric welding appar Small cutter Outside entrance Entrance to body shop | paratus                       |  |  |      |
| H  |                             | gend to your Shop, raint Shop, and  | Shetch No. 9 of Pickling Shop | n page 35.   |  | 25X1 |
| /  | 3.<br>4.<br>5.              | Storage Drilling machines First-coat paint sect: Pickling baths Water baths Entrances   | Lon                           |  |  |      |
|    |                             | gend to<br>or Repair Shop   | Sketch No. 8 or               | n page 19.   |  | 25X1 |
| *  | 2.<br>3.<br>4.<br>5.<br>6.  | Disassembly bench Pickling bath Crankshaft grinder Lathe Cylinder grinder Testing machines Finishers bench Entrances Pure water bath  |                               |  |  |      |
| 1  |                             | and to  | Shetch No. 1 or               | page 20.   |  | 25X1 |
|    | 5.<br>6.<br>7.              | Galvanizing baths Clean water baths Direct current convert Air compressors for particulators Cleaning room for galv Laboratory Precision control inst Entrance                            | aint shop                     | 5. Large 6. Electr 7. Small 8. Coal f 9. Cutter 10. Press 11. Drilli | mering bath mechanical hamm ic furnaces mechanical hamm furnaces |      |
|    |                             |   | C-O-N-F-I-D-H                 | E-N-T-I-A-L  |  | 25X1 |

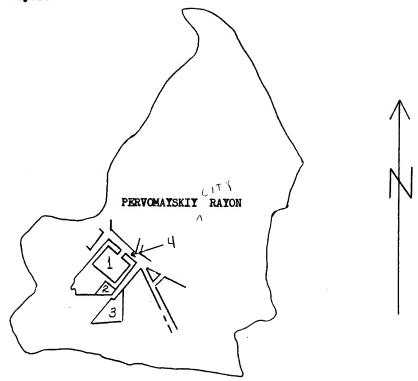
- 10 -

25X1 C-O-N-F-I-D-E-N-T-I-A-1 - 11 -

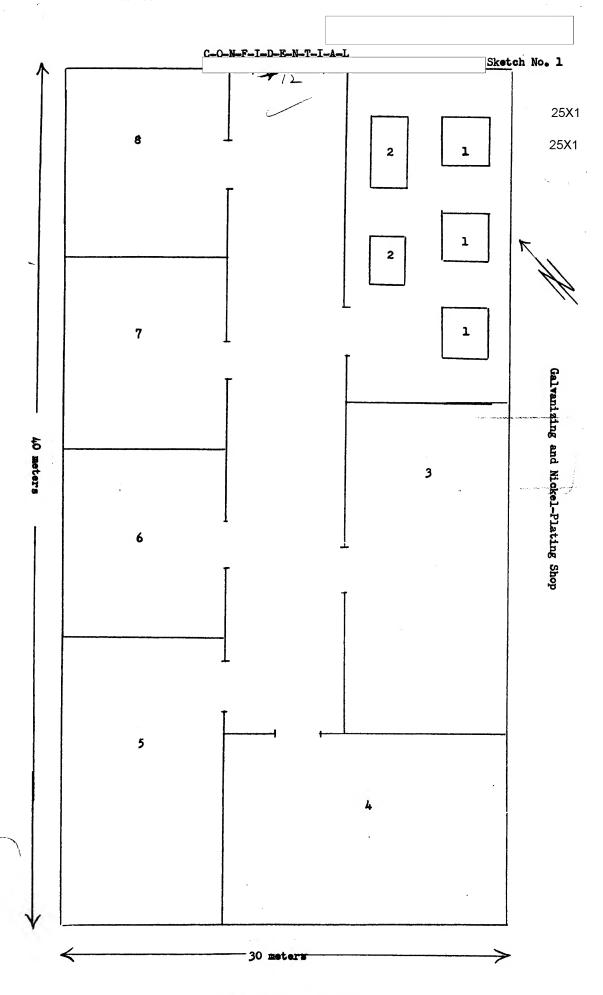
Overlay of Plan of Moscow

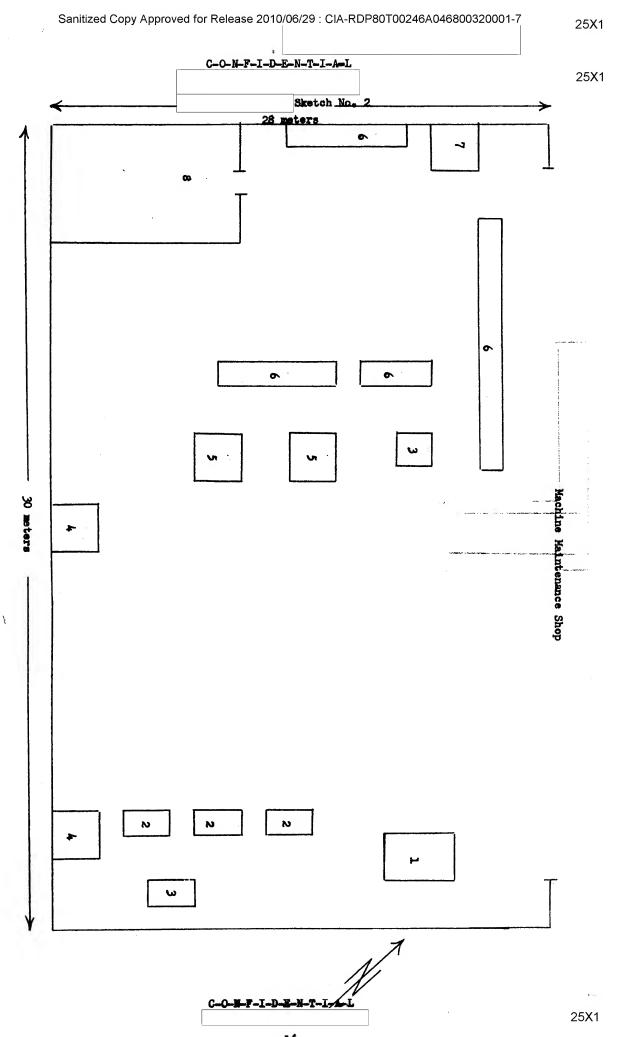
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- 1. Central Automobile Repair Plant
- 2. Large Bakery
  3. Serp I Molot metallurgical plant
  4. Tankovyy Proyesd

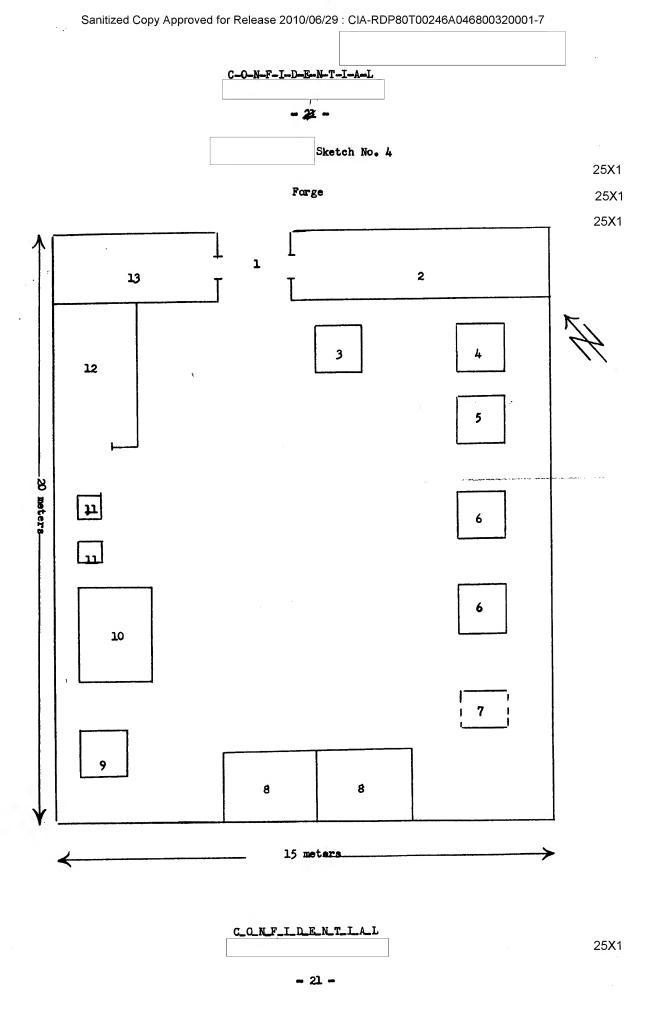


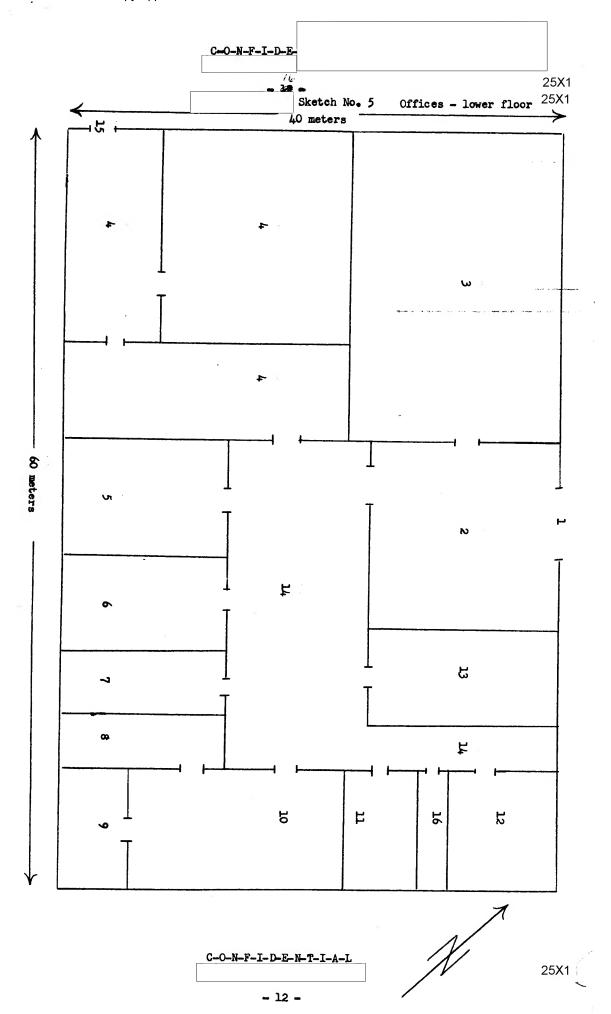
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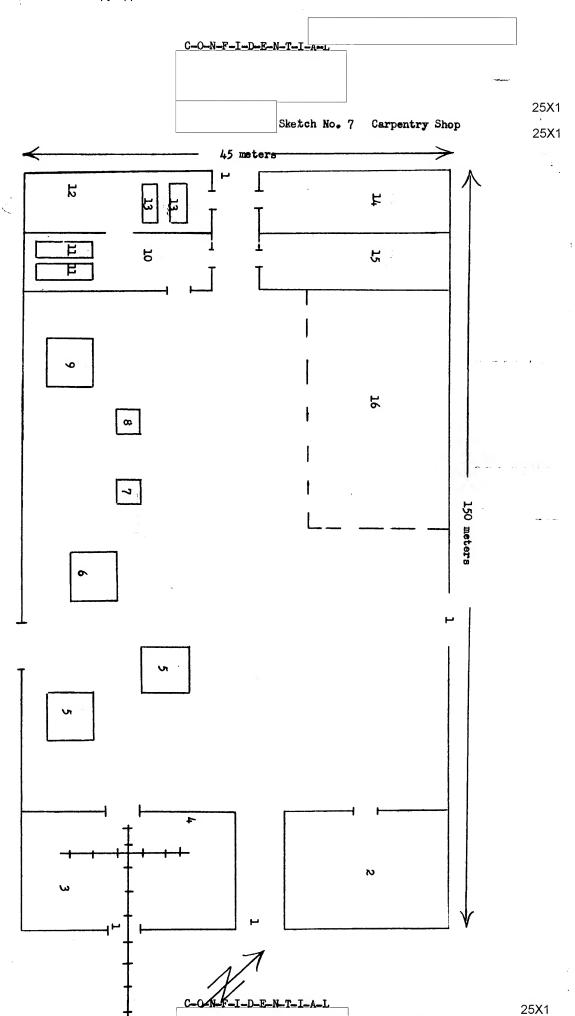


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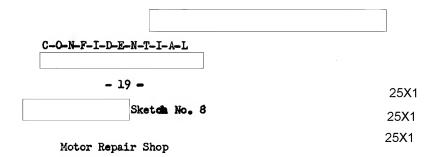


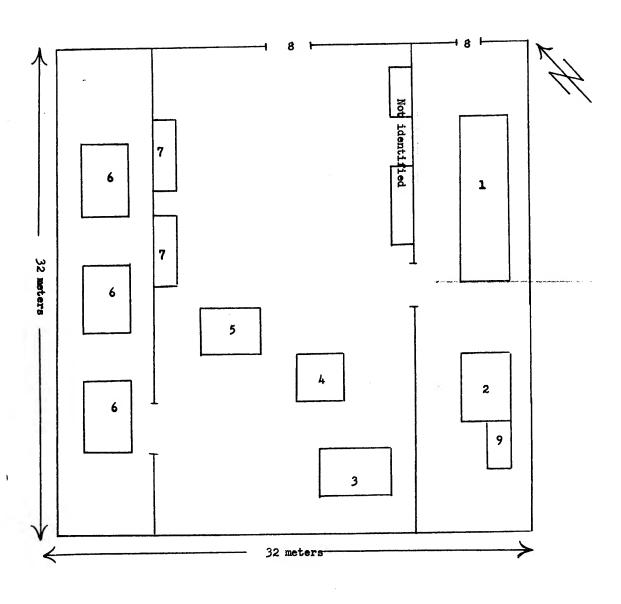


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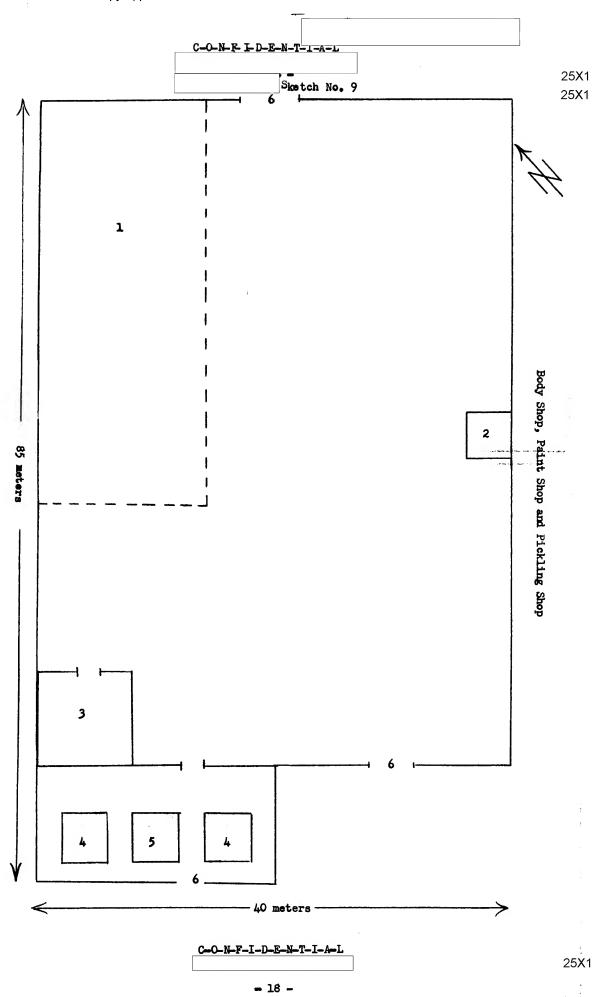


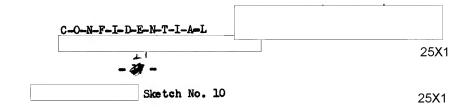
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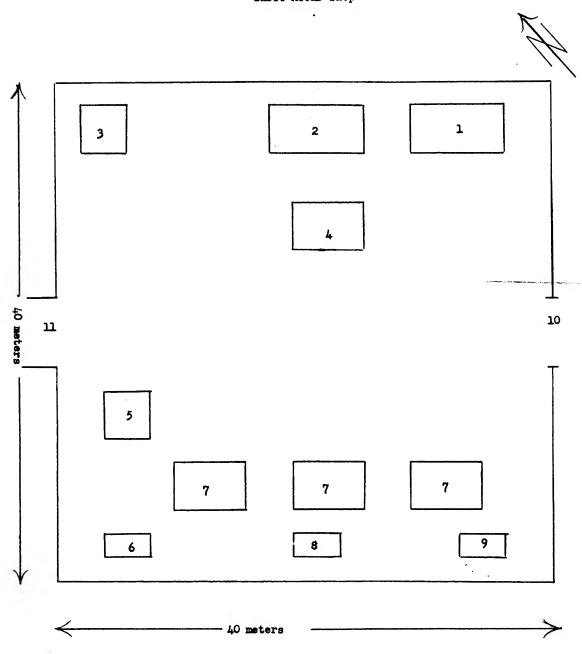


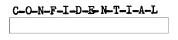






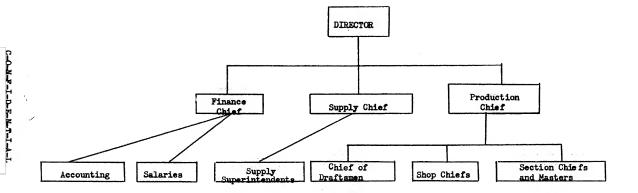
Sheet Metal Shop





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CENTRAL AUTOMOBILE REPAIR PLANT IN MOSCOW CHART SHOWING PERSONNEL ORGANIZATION



25X1 25X1 25X1

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